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*Attorneys for Plaintiff John Lofton, on his own  
behalf, and behalf of all others similarly situated*

**IN THE UNITED STATES DISTRICT COURT FOR  
NORTHERN DISTRICT OF CALIFORNIA  
OAKLAND DIVISION**

JOHN LOFTON, an individual, on his own  
behalf and on behalf of all others similarly  
situated,

Plaintiff,

v.

VERIZON WIRELESS (VAW) LLC, a  
Delaware limited liability company, and  
DOES 1-100, inclusive,

Defendants.

No. C 13-05665 YGR

Honorable Yvonne Gonzalez Rogers

**DECLARATION OF RANDALL  
SNYDER IN SUPPORT OF OCTOBER  
2014 LETTER TO MAGISTRATE  
JUDGE JACQUELINE SCOTT CORLEY  
FOR SANCTIONS**

I, Randall A. Snyder, hereby declare as follows:

1. My name is Randall A. Snyder. I am an adult over the age of 18 and a resident of the state of Nevada. I am an independent telecommunications technology consultant and reside at 8113 Bay Pines Avenue, Las Vegas, Nevada, 89128. I have been retained by the law firm of Parisi & Havens LLP in this case and the multidistrict litigation proceeding pending before the United States Court for the District of Massachusetts under the caption *In re Collecto, Inc. Telephone Consumer Protection Act (TCPA) Litigation*, No. MDL 14-md-2513-RGS (“*In re Collecto*”) to render expert opinions about certain technology and document productions.

2. I have personal knowledge of each of the matters stated herein, and if called to

1 testify I could and would testify competently about them. My opinions in this declaration are  
2 based on my education, knowledge, experience, training and my review of the following  
3 documents in this case: Deposition of Peter Cappola dated September 24, 2014; account records  
4 labeled as Bates Nos. EOS000491–92; Telephone Consumer Protection Act, 47 U.S.C. § 227, *et*  
5 *seq.* (“TCPA”) and regulations promulgated thereunder; the FCC’s Report and Order in the  
6 Matter of Rules and Regulations Implementing the Telephone Consumer Protection Act of 1991  
7 dated October 16, 1992; the FCC’s Report and Order in the Matter of Rules and Regulations  
8 Implementing the Telephone Consumer Protection Act of 1991 dated July 3, 2003; and the  
9 FCC’s Report and Order in the Matter of Rules and Regulations Implementing the Telephone  
10 Consumer Protection Act of 1991 dated January 4, 2008.

11 3. I have over 28 years of experience in telecommunications network and system  
12 architecture, engineering, design and technology. I am an expert in the fields of both wireline and  
13 wireless telecommunications networking technology. A copy of my *curriculum vitae* is attached  
14 to this Declaration. I have been retained as a testifying or consulting expert in more than 85 cases  
15 regarding telecommunications technology (including 57 cases regarding the TCPA and  
16 associated regulations).

17 4. I have taught many classes and seminars on both wireline and wireless  
18 telecommunication network technologies and have been a panelist and speaker at numerous  
19 conferences at the Institute of Electrical and Electronics Engineers (“IEEE”), the Personal  
20 Communication Society (“PCS”), and the Cellular Telecommunications and Internet Association  
21 (“CTIA”) as an expert in telecommunication networks. I spent seven years developing standards  
22 within the American National Standards Institute’s subsidiary organization, the  
23 Telecommunications Industry Association (“TIA”), providing technical contributions and  
24 authoring and editing telecommunications proposed standards documents. Most notably, I  
25 authored and oversaw the standardization of Interim Standard 93, providing interconnection  
26 technology between wireline and wireless networks, which is a fully accredited national standard  
27 of the American National Standards Institute (“ANSI”). I am the co-author of the McGraw-Hill  
28 books “Mobile Telecommunications Networking with IS-41,” and “Wireless

1 Telecommunications Networking with ANSI-41, 2nd edition” published in 1997 and 2001,  
2 respectively. These books have sold several thousand copies and were required reading for  
3 wireless engineers at AT&T Wireless and Motorola for several years. The latter book has also  
4 been relied upon and cited numerous times as a reference for various patents in the  
5 telecommunications industry. I have been issued 22 patents on telecommunications networking  
6 technology and currently have six additional published patents pending. I have also authored  
7 several articles on telecommunications technology and have been quoted numerous times in  
8 industry trade publications. I have consulted for and been employed by many wireline and  
9 wireless telecommunications companies including McCaw Cellular, AirTouch, AT&T Wireless,  
10 AT&T Mobility, Lucent, Nokia, Ericsson, Nextwave, MCI, Sprint and other telecommunications  
11 technology vendors and service providers. I was also nominated in 2006 for a National  
12 Television Arts Emmy Award for Outstanding Achievement in Advanced Media Technology for  
13 unique wireless content distribution technology I designed while employed at Entriq, Inc.

14 5. Still more detail, as well as details of publications that I have authored or co-  
15 authored within at least the past 10 years, are provided in my attached *curriculum vitae* (a true  
16 and correct copy of which is attached hereto as Exhibit 1) along with a list of cases where I  
17 served as a testifying or consulting expert (a true and correct copy of which is attached hereto as  
18 Exhibit 2) and my standard rate sheet (a true and correct copy of which is attached hereto as  
19 Exhibit 3). I am being compensated at the rate of \$450 per hour for my study, analysis and  
20 testimony in this case. My compensation does not depend upon the outcome of this matter.

21 6. I understand that fact discovery in this case is ongoing and I also understand that  
22 there are documents and/or evidence that have yet to be produced and depositions that have yet  
23 to occur. To the extent that I cannot fully opine on the technical issues in this case, I hereby  
24 reserve the right to supplement this Declaration with both my conclusions and opinions in a  
25 detailed and additional supplementary declaration in the future.

26 7. I have been involved as a testifying expert or a consulting expert in fifty-seven  
27 (57) actions under the Telephone Consumer Protection Act, 47 U.S.C. § 227 (“TCPA”). In every  
28 case for which I have been retained as an expert regarding the TCPA, the most important data

1 used to identify class members and to determine if a potential TCPA violation has occurred are  
2 call detail records (“CDRs”).

3       8. Each line-item CDR represents an individual call and includes the telephone  
4 number of the calling party (*i.e.*, the telephone number of the party originating the call), the  
5 telephone number of the called party (*i.e.*, the telephone number of the party receiving the call),  
6 the date the call was made (*i.e.*, month, day, year), the time the call was made (*i.e.*, hour, minute  
7 and sometimes second) and the duration of the call (*i.e.*, hours, minutes and sometimes seconds).

8       9. Based on my experience from working on previous cases, I am aware that CDRs  
9 which include data such as the called telephone number, the time and date of the call, the  
10 duration of the call, as well as additional details, such as the method or mode by which the call  
11 was dialed (*e.g.*, predictive dialing, power dialing, preview dialing, manual dialing, *etc.*) and  
12 disposition of the call (*e.g.*, answered, answered by voice-mail, not answered, *etc.*) can be  
13 extracted from the following dialers used by Collecto, Inc. (“Collecto”) in this case: the Noble  
14 Maestro automatic dialing system, the LiveVox automatic dialing system and the SoundBite  
15 automatic dialing system.

16       10. The most reliable method for ascertaining class members in TCPA cases involves  
17 the analysis of the CDRs that are logged by the automatic dialing system and stored in a  
18 database. CDRs reflecting calls to individuals that do not qualify as class members (for whatever  
19 reason) can be filtered out, revealing only calls to telephone numbers representing individuals  
20 that qualify as class members. In every case for which I have been retained as an expert  
21 regarding the TCPA, the most important data that is used to determine if a potential TCPA  
22 violation has occurred and to ascertain potential class members are CDRs.

23       11. It is my understanding that Collecto has been unable to produce CDRs relevant to  
24 this case because they did not suspend their policy of routinely destroying data older than two  
25 years. This is the only TCPA case in which I have been involved attempting to analyze CDRs  
26 where the defendant has not kept data for at least four years. In fact, in my experience, it is quite  
27 common for companies operating call centers to maintain records for five or more years. In these  
28 cases, the records are archived in an offline database, but they remain accessible and can be

13. My opinions in this declaration are based upon extensive experience in the telecommunications industry, a detailed understanding of telecommunications systems and a detailed understanding of automatic telephone dialing systems. I hereby reserve the right to supplement or modify my opinions detailed in this report to the extent that new information is made available through discovery or other means.

Executed in Las Vegas, Nevada, on this 31<sup>st</sup> day of October 2014.

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Randall A. Snyder

# EXHIBIT 1

## Randall A. Snyder Curriculum Vitae

### Professional Summary

Randall Snyder is a recognized expert in wireless and cellular telecommunications technology, executive manager and leader, designing, developing, marketing and managing mobile telecommunication system and software products. He has over 30 years of experience specializing in wireless telecommunications technology, network architecture, design, system engineering, marketing and product management. He is a reputable leader and strategic developer with a successful background building startups. He is skilled presenter, communicator, and educator with success impacting organizational performance, corporate reputation and increasing sales. Mr. Snyder is results-oriented, highly organized and creatively focused on adhering to organizational missions and philosophy while designing best-of-breed mobile technology solutions. He has extensive travel experience to Asia-Pac, Latin America and Europe supporting engineering, sales and marketing with familiarity with wireless network operators and manufacturers worldwide. Mr. Snyder has several years of wireless standards development with extensive travel throughout Asia-Pac, Latin America and Europe. He has been issued 22 patents related to wireless telecommunications technology.

### Expertise

- Business Relations: Seminars, Sales Presentations and Sales Engineering
- Legal: Provisional and Patent Applications, Subject Matter Expert Consultant, Expert Witness and Testimony, Litigation Support, Sales and Vendor Contract Negotiations and Review, Qualified as an Expert in Federal District Court
- Management: Strategic/Tactical Planning, Product Management, Marketing Management, Operations Management, Competitive Analysis, Problem Resolution, Project Planning, Risk Management
- Organizational: P&L Management, Budget Planning, Expense Reduction and Cost Control
- Technology: Wireless Network Engineering, Design and Architecture, Multimedia Systems, Mobile Internet, Mobile Video, Mobile Marketing, mCommerce and Mobile Payments, Mobile Telecommunications Standards, 3G, UMTS, LTE, LBS, SMS, MMS, WAP, GSM, and ANSI-41 (CDMA) Networking, Signaling System No. 7 (SS7), Communications Protocols, Telephone Consumer Protection Act (TCPA), Automatic Telephone Dialing Systems (ATDS)

### Education

<u>Year</u>	<u>College or University</u>	<u>Degree</u>
1984	Franklin and Marshall College	B.A., Mathematics (minor in Astronomy)

**Randall A. Snyder**  
**Curriculum Vitae**

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**Professional Experience**

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From: January 2007  
To: Present  
Organization: Wireless Research Services, LLC; Las Vegas, NV  
Title: President and Founder  
Summary: Responsible for consulting business, and revenue as well as being the principal consultant. Areas of subject matter expertise include mobile and cellular networking, 3G, LTE, UMTS, GSM, ANSI-41, LBS, SMS, MMS, WAP, SS7, Diameter Signaling, Automatic Telephone Dialing Systems (ATDS) and mobile multimedia systems. With this expertise, primary consulting is in the area of system and product architecture, design, development, management and marketing as well as patent preparation and development, expert reports, expert testimony and litigation support. Expert witness and technology consultant for over 85 legal cases; authored over 70 expert reports for intellectual property cases, Telephone Consumer Protection Act (TCPA) cases and wireless technology litigation cases.

Notable Case:

- Personally cited by United States Court of Appeals for the Ninth Circuit. Satterfield v. Simon & Schuster, Inc. No. 07-16356, D.C. No. CV-06-02893-CW Opinion. Appeal from the United States District Court for the Northern District of California. Opinion by N.R. Smith, Circuit Judge. Filed June 19, 2009.

Result of expert opinion greatly expanded the TCPA and was followed by formal FCC Declaratory Rulings citing this case that text messages are calls as defined by the TCPA and dialing numbers from a stored electronic list of telephone numbers falls within the definition of an Automatic Telephone Dialing System (ATDS).

From: September 2007  
To: August 2010  
Organization: Finsphere Corporation; Bellevue, WA  
Title: Vice President Product Management & Wireless Engineering  
Summary: Was among the first handful of employees at Finsphere prior to Series A funding. As vice president of product management and wireless engineering and a member of the executive management team, was responsible for product management activities and wireless technology solutions for Finsphere's products. These products encompassed mobile location based software-as-a-service (SaaS) products offered primarily to financial institutions and banks. Responsibilities included product requirements and system functionality, strategic planning, R&D of new technologies, wireless network interconnectivity as well as wireless technology for Finsphere's products. Was also responsible for market strategies, white papers and development and management of intellectual property and patent applications.



**Randall A. Snyder**  
**Curriculum Vitae**

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From: May 2004  
To: April 2007  
Organization: Entriq, Inc.; Carlsbad, CA  
Title: Vice President Product Management  
Summary: Was responsible for the entire product management team and system architecture for Entriq's products and services. Products encompassed mobile and broadband pay media applications (specializing in video), digital rights management (DRM) and security solutions, e-commerce and m-commerce systems as well as ad management and delivery solutions for both broadband and mobile media services. Responsibilities also included network and protocol analysis, market analysis, evaluation of third-party software and services, all vendor contract negotiations, RFP responses and overall administrative responsibility for the entire product line. Was responsible for directing and managing the technical writing department producing all user documentation associated with the products. Was nominated for a National Television Arts and Sciences Emmy Award for Outstanding Achievement in Advanced Media Technology for unique mobile technology designed, developed and commercially deployed as part of Entriq's solution.

From: February 2002  
To: November 2003  
Organization: m-Qube, Inc. (acquired by Verisign); Boston, MA  
Title: Vice President Product Management and Carrier Marketing and Founder  
Summary: Was responsible for the entire product management and carrier marketing teams, member of the executive management team and one of the founders. Was responsible for all product management, system engineering and product strategy for all business conducted with the wireless industry and carriers. Was in charge of the market strategy and wireless network architecture for m-Qube's mobile marketing service, a value-added service offering mobile marketing solutions to wireless carriers using short message services (SMS) for GSM and CDMA networks. The service architecture enabled branded companies to deploy promotional marketing and messaging campaign dialogs with mobile subscribers via SMS. The network architecture required definition and design of all aspects of the overall network including SMS technology, interconnectivity to the wireless carriers, signaling, traffic management, market requirements for features and services, network equipment specifications and OA&M.

From: April 2001  
To: February 2002  
Organization: Bitfone Corporation; Mountain View, CA  
Title: Vice President Product Management and Marketing  
Summary: Was responsible for the entire product management team and all of the company's product definitions, strategies and positioning. Had direct responsibility for market and product requirements, market research, competitive analysis, product strategy and sales strategy. Bitfone's products included the iBroker, a mobile Internet technology infrastructure platform to enhance WAP, MMS, mobile e-mail and wireless

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**Randall A. Snyder**  
**Curriculum Vitae**

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messaging. Was also responsible for the mProve product (obtained via merger with Digital Transit, Inc.) providing over-the-air firmware and software update technology to mobile devices.

From: November 2000  
To: April 2001  
Organization: Openwave Systems (via merger of Phone.com and Software.com); Redwood City, CA  
Title: Executive Director Emerging Technologies  
Summary: Was responsible for new 3G technologies and providing market and product plans for those technologies for the entire product line. Primary responsibility for the 3GPP Multimedia Messaging Service (MMS), collecting market requirements from customers, developing corporate strategy for MMS and preparing the organization for additional development of the product. In addition, taught wireless technology classes to the different departments at Openwave and educated them on wireless service provider strategies and network technologies.

From: March 2000  
To: November 2000  
Organization: @Mobile and Software.com (via acquisition); Santa Barbara, CA  
Title: Director Wireless Product Management  
Summary: Was responsible for the product managers and for all of the wireless internet infrastructure products. Responsibilities included the overall market and product strategy for Software.com's wireless e-mail, short message service, instant messaging and unified messaging products. Was responsible for the overall revenues generated from these products based on detailed product plans and internal organizational planning. Much of his time was spent working with the executive management team and the sales directors on corporate market strategy.

From: December 1999  
To: March 2000  
Organization: FreeSpace Communications, Inc.; Palo Alto, CA  
Title: Consulting Network Systems Engineer  
Summary: Was responsible for the complete design of the backbone network architecture for a new broadband fixed wireless data network. This new architecture incorporated DSL as the backbone network technology. The network architecture required definition and design of all aspects of the overall network plan including DSL technology, IP technology, ATM technology, interconnectivity to the PSTN, operations signaling, traffic engineering, market requirements for network features and services, network equipment specifications and OA&M.

From: April 1992  
To: December 1999  
Organization: Synacom Technology, Inc.; San Jose, CA

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**Randall A. Snyder**  
**Curriculum Vitae**

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Title: Executive Director Product Marketing and Management

Summary:

1998 – 1999 Executive Director Product Marketing and Management

- Responsible for managing the entire product management and marketing department of Synacom Technology, including market research and planning, product management and market communications. Lead the entire design, definition and product direction of all aspects of Synacom's products.

1997 – 1998 Director Systems Engineering

- Responsible for coordinating and managing the overall functional and requirements specifications for all Synacom's products as well as the detailed test plans used for alpha system testing of those products. Also responsible for directing and managing the technical writing department producing all of the user documentation associated with all of the products. Provided the primary sales engineering support for sales and marketing and was involved in nearly every aspect of the product lifecycle.

1996 – 1997 Director Consulting Services and Principal Engineer

- Responsible for obtaining, coordinating and managing all technical consulting projects performed by the company. These projects included wireless network architecture and design for both IS-41 and GSM networks for dozens of client companies (carriers and equipment manufacturers). In this role, continued as a member of both the ANSI/TIA TR45.2 Subcommittee for cellular radio intersystem operations standards and the ANSI/TIA TR46 Committee for 1900 MHz GSM PCS standards. Major contributor to TR46 in the area of GSM-to-IS-41 network interworking. Also authored, edited and published TIA standard specification IS-93 for cellular network interconnections to the PSTN and ISDN.

1992 – 1996 Principal Engineer

- Consulted for McCaw Cellular, AT&T Wireless, AirTouch Cellular, AirTouch Satellite Services, Globalstar, Nokia, MCI, Sprint PCS, XYPoint, NextWave, NewNet American Personal Communications, CTIA and several other national and international wireless telecommunications companies.
  - Wrote wireless network design and analysis papers including HLR specifications, Authentication Center specifications, PCS network design, short message service (SMS) design, intelligent network applications of wireless technology and in-house expert in signaling protocols. Extensive experience with Signaling System No. 7, including both protocol implementation and design. Authored the Standard Requirements Document for the SS7-based A-interface between the base station and MSC used throughout the TIA. Also involved in the design of the Bellcore WACS/PACS technology, digital cellular network service and feature descriptions, SCPs and HLRs. Extensive experience developing the architecture and design of distributed intelligent networks including, SS7, cellular, PCS, AIN and WIN networks. Key member of the original Cellular Digital Packet Data (CDPD) architecture and design team. Designed the CDPD air interface protocol emulator
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**Randall A. Snyder**  
**Curriculum Vitae**

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developed and marketed by AirLink Communications, Inc.

From: December 1990  
To: April 1992  
Organization: AT&T Bell Laboratories; Whippany, NJ  
Title: Consulting Member of the Technical Staff  
Summary: Evaluated wireless technology services for the Wireless Systems Architecture group. Also participated as a system engineer on the design of the Global System for Mobile (GSM) communication architecture and a software engineer developing the base station controller (BSC) for GSM. Also responsible for planning, coordinating, designing and testing the SS7 protocol software for the GSM A-interface between the BSC, MSC and operations and maintenance center (OMC). High-level and detailed design specifications were developed to coordinate the protocol testing between two remote laboratories. Provided the traffic analysis and traffic engineering of call traffic for the BSC. Specifically designed and developed the dynamic traffic overload control subsystem for the BSC. Presentations were given to technical staffs at multiple Bell Laboratories facilities supporting this work.

From: May 1987  
To: December 1990  
Organization: DGM&S, Inc.; Mt. Laurel, NJ  
Title: Senior Staff Consultant  
Summary: Responsible for the design, development and test coordination of an advanced intelligent network applications platform for a service control point (SCP). Also spent several years as a consulting software engineer for Siemens AG, developing and testing SS7 and call control software for the EWSD digital switching system for international as well as U.S. national network implementations. This work involved extensive travel to both Frankfurt and Munich, Germany for software system design and testing. Also involved in the concept, design and technical marketing of proprietary enabling technology software products for SS7 and ISDN.

From: May 1986  
To: May 1987  
Organization: ADP, Inc.; Mt. Laurel, NJ  
Title: Senior Software Engineer and Analyst  
Summary: Responsible for the design and development of data communications and real time database application software for a host data center that provided real time financial information to large brokerage houses. Data communication protocol expertise in HDLC, RS-232 and IBM BiSync.

## Randall A. Snyder Curriculum Vitae

From: June 1984  
 To: May 1986  
 Organization: C3, Inc.; Cape May, NJ  
 Title: Consulting Systems Analyst and Software Engineer  
 Summary: Civilian consulting systems analyst and engineer to the U.S. Coast Guard Electronics Engineering Center (EECEN) for C3, Inc. Developed sophisticated database software for shipboard use including inventory and law enforcement applications. The work included the follow-through of the entire project lifecycle including writing of requirements, functional, design and program specifications, coding, debugging, alpha and beta testing, release, shipboard installation and continuing technical support of the product. Received a personal commendation from Admiral W.F. Merlin, Chief, Office of Command, Control and Communications, for successful efforts on these projects.

### Professional Affiliations, Achievements & Awards

- Member, Mobile Multimedia Institute
- Nominated, Technology and Engineering Emmy Award for Outstanding Achievement in Advanced Media Technology, 2006

### Patents, Publications & Citations

#### Issued Patents

<u>Patent</u>	<u>Date</u>	<u>Description</u>
US 8,839,394	9/16/2014	Systems and Methods for Authenticating a User of a Computer Application, Network, or Device Using a Wireless Device
US 8,831,564	9/9/2014	System and Method for Mobile Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 8,819,141	8/26/2014	Centralized Mobile and Wireless Messaging Opt-out Registry System and Method
US 8,761,732	6/24/2014	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,670,753	3/11/2014	System and Method for Determining and Delivering Appropriate Multimedia Content to Data Communication Devices
Mexico 308720 B	12/04/2013	Sistema y Metodo para el Analisis Automatizado que Compara una Ubicacion del Dispositivo Inalambrico con Otra Ubicacion Geografica
US 8,588,748	11/19/2013	System and Method for Mobile Identity Protection of a User of

<b>Randall A. Snyder</b> <b>Curriculum Vitae</b>
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US 8,437,784	05/07/2013	Multiple Computer Applications, Networks or Devices System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,374,634	02/12/2013	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 8,280,348	10/02/2012	System and Method for Mobile Identity Protection Using Mobile Device Signaling Network Derived Location Pattern Recognition
US 8,155,677	04/10/2012	Mobile Messaging Short Code Translation and Routing System and Method
New Zealand 580499	08/31/2012	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 8,131,262	03/06/2010	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 8,116,731	02/14/2012	System and Method for Mobile Identity Protection of a User of Multiple Computer Applications, Networks or Devices
Australia 2008/115299	02/09/2012	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
S. Africa 2009/06947	01/26/2011	System and Method for Automated Analysis Comparing a Wireless Device Location with Another Geographic Location
US 7,792,518	09/07/2010	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 7,403,788	07/22/2008	System and Method to Initiate a Mobile Data Communication Utilizing a Trigger System
US 6,128,389	10/03/2000	Authentication Key Management System and Method
US 5,970,144	10/19/1999	Secure Authentication-Key Management System and Method for Mobile Communications
US 5,850,445	12/15/1998	Authentication Key Management System and Method
US 5,799,084	08/25/1998	System and Method for Authenticating Cellular Telephonic Communication

### Publications

1. What Workers Want from Wireless by Randall A. Snyder; April 15, 2004. America's Network, Advanstar Communications, Santa Ana, California USA.
  2. Snyder, Randall A. and Gallagher, Michael D. Wireless Telecommunications Networking with ANSI-41 Second Edition; McGraw-Hill, New York, NY USA; © Copyright 2001 Randall A. Snyder and Michael D. Gallagher. *Foreword by Tom Wheeler, current Chairman, Federal Communications Commission.*
  3. Forecasting SS7 Traffic by Randall A. Snyder; November 1, 2000. Wireless Review, Volume 17, Number 21, Intertec Publishing, Overland Park, KS USA.
  4. Gallagher, Michael D. and Snyder, Randall A. Mobile Telecommunications Networking with IS-41; McGraw-Hill, New York, NY USA; © Copyright 1997 Michael D. Gallagher and Randall A. Snyder.
  5. IS-41/GSM Interoperability by Randy Snyder; December, 1995, Cellular Networking Perspectives, Cellular Networking Perspectives, LTD, Calgary, Alberta, Canada.
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**Randall A. Snyder**  
**Curriculum Vitae**

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Citations

1. Commendation from Admiral W.F. Merlin, Chief, Office of Command, Control and Communications, USCG (1986)
2. Method and Apparatus for Routing Short Messages, US Patent #6308075, Issued October 23, 2001.
3. Mediation Software for Delivery of Interactive Mobile Messaging and Personalized Content to Mobile Devices. Patent Application # 20020120779, August 29, 2002.
4. Automatic In-Line Messaging System, US Patent #6718178, Issued April 6, 2004.
5. Method and System for Wireless Instant Messaging, US Patent #7058036, Issued June 6, 2006.
6. United States Court of Appeals for the Ninth Circuit. Satterfield v. Simon & Schuster, Inc. No. 07-16356, D.C. No. CV-06-02893-CW Opinion. Appeal from the United States District Court for the Northern District of California. Opinion by N.R. Smith, Circuit Judge. Filed June 19, 2009.

# **EXHIBIT 2**



**Randall A. Snyder  
Curriculum Vitae**

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**Litigation Support Experience**

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*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology.  
Law Firm: McGuireWoods LLP  
Case Name: Comcast Cable Communications, LLC v. Sprint Communications Company L.P.  
Services Provided: Testifying expert for defendant  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Caddell & Chapman  
Case Name: Hooker v. Sirius XM Radio, Inc.  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Lemberg & Associates LLC  
Case Name: Hamlett et al v. Santander Consumer USA Inc. et al  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Bock & Hatch, LLC  
Case Name: Kozlow v. Hangtime, Inc.  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Parisi & Havens LLP  
Case Name: In re Collecto, Inc.  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing

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**Randall A. Snyder**  
**Curriculum Vitae**

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Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Parisi & Havens LLP  
Case Name: Lofton v. Verizon Wireless LLC  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Edelson PC  
Case Name: Birchmeier et al v. Caribbean Cruise Line, Inc. et al  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Keogh Law, Ltd.  
Case Name: Johnson v. Yahoo! Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Jacobs Kolton, Chtd.  
Case Name: Nunes v. Twitter, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Manning Law, PLLC  
Case Name: Manning v. Lendio, Inc.  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

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*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: The Law Offices of Joseph R. Manning, Jr.  
Case Name: Vargem v. Tax Defense Partners, LLC  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Steptoe & Johnson PLLC  
Case Name: Cain v. Monitronics, International, Inc.  
Services Provided: Consulting expert for defendant  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful cellular telephone calls  
Law Firm: Mantese Honigman Rossman and Williamson, P.C.  
Case Name: Glassbrook v. Rose Acceptance, Inc. and First National Bank of America  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Kazerouni Law Group, APC  
Case Name: Iniguez v. The CBE Group, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2014

*Expert Engagement:*

Type of Matter: California Invasion of Privacy Act (Penal Code §§ 630) class action related to unlawful recording of telephone conversations  
Law Firm: Keller Grover LLP and Law Offices of Scot D. Bernstein  
Case Name: McCabe v. Six Continents Hotels, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

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Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Keogh, Cox & Wilson, Ltd.  
Case Name: Heatherington v. Omaha Steaks, Inc.  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Lemberg & Associates LLC  
Case Name: Shiyan v. Lucille Roberts Health Clubs, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Ongoing  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Lemberg & Associates LLC  
Case Name: Meyer v. Receivables Performance Management LLC  
Services Provided: Testifying expert for plaintiff  
Disposition: Settled  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Lemberg & Associates LLC  
Case Name: Creel v. GC Services, L.P.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2014

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology and communication protocols  
Law Firm: White & Case LLP  
Case Name: Nokia Corporation v. Google Inc.  
Services Provided: Testifying expert for defendant  
Disposition: Settled  
Date: 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls

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Law Firm: Lemberg & Associates LLC  
Case Name: Horton v. Cavalry Portfolio Services LLC  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Law Office of Scott D. Owens, Esq. and Farmer, Jaffee, Weissing, Edwards, Fistos & Lehrman, P.L.  
Case Name: Legg v. Voice Media Group, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Class certification denied  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Edelson LLC  
Case Name: Sterk v. Path, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Francis & Mailman, P.C.  
Case Name: Dominguez v. Yahoo! Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: McGuire Law, P.C.  
Case Name: Smith v. Microsoft Corporation  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Ongoing  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Heyrich Kalish McGuigan, PLLC

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Case Name: Gragg v. Orange Cab Company, Inc. et al  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Wooten, Kimbrough & Normand, PA  
Case Name: Murphy v. DCI Biologicals, LLC  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Kazerouni Law Group, APC  
Case Name: Sherman v. Yahoo! Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 and Fair Debt Collection Practices Act (FDCPA) 15 U.S.C. 15 § 1692 related to unlawful cellular telephone calls  
Law Firm: Collins & Story, PA  
Case Name: Keen v. Delta Outsource Group, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Ongoing  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology and mobile banking  
Law Firm: Panovia Group LLP  
Case Name: N5 Technologies, LLC v. Capital One, N.A. et al  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 and California's Unfair Competition Law, Cal. Bus. & Prof. Code § 17200 class action related to short message service (SMS) technology  
Law Firm: Hartmann and Kananen

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Case Name: Baird v. Sabre, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Dismissed  
Date: 2013 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: Edelson LLC

Case Name: Lee v. Stonebridge Life Insurance Company  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2012 – 2014

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology and multimedia message service (MMS) technology

Law Firm: Baker Botts LLP

Case Name: Intellectual Ventures LLC v. AT&T Mobility LLC, T-Mobile USA, Inc., Sprint Spectrum L.P., US Cellular Corporation  
Services Provided: Testifying expert, expert reports, depositions for defendants  
Disposition: Ongoing  
Date: 2012 – 2014

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology

Law Firm: Keogh Law, Ltd.

Case Name: Wanca v. LA Fitness International, LLC  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls

Law Firm: Lemberg & Associates LLC

Case Name: Penn v. NRA Group, LLC  
Services Provided: Consulting expert for plaintiff  
Disposition: Ongoing  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls

Law Firm: Lemberg & Associates LLC

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Case Name: Reed v. GC Services LP  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology

Law Firm: The Lavery Law Firm  
Case Name: Volpe v. Caribbean Cruise Line, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Dismissed  
Date: 2013

*Expert Engagement:*

Type of Matter: Washington Consumer Protection Act, RCW 19.86 and RCW 80.36.400 related to unfair business practices and unlawful cellular telephone calls

Law Firm: Williamson and Williams Law  
Case Name: Kids Northwest v. First Data Corporation  
Services Provided: Consulting expert for plaintiff  
Disposition: Ongoing  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology

Law Firm: George Rikos Law  
Case Name: Van Patten v. Vertical Fitness  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Ongoing  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 and California Business and Professions Code § 17200 class action related to short message service (SMS) technology

Law Firm: Milberg LLP  
Case Name: D'Agostino v. Jesta Digital, LLC (dba Jamster)  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 and Restrictions on Telemarketing, Telephone Solicitation, and Facsimile Advertising 47 C.F.R. § 64.1200(d)(3) class action related to unlawful cellular telephone calls

Law Firm: Burke Law Offices, LLC

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Case Name: Benzion v. Vivint, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls

Law Firm: Lemberg & Associates LLC  
Case Name: Rutigliano v. Convergent Outsourcing, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Ongoing  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology

Law Firm: Kazerouni Law Group, APC  
Case Name: Emanuel v. The Los Angeles Lakers, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Dismissed  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology

Law Firm: Kazerouni Law Group, APC  
Case Name: Barani v. Wells Fargo Bank, N.A.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to wireless calling party identification technology

Law Firm: K&L Gates LLP  
Case Name: Cequent Inc. v. Apple Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls

Law Firm: Donald A. Yarbrough, Esq.  
Case Name: Mais v. Gulf Coast Collection Bureau, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff

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Disposition: Dismissed on appeal  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Donald A. Yarbrough, Esq.  
Case Name: Manno v. Healthcare Revenue Recovery Group, LLC  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: Law Office of Scott D. Owens, Esq.  
Case Name: Wojcik v. Buffalo Bills, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2012 – 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: Law Office of Scott D. Owens, Esq.  
Case Name: Keim v. ADF Midatlantic, LLC (Pizza Hut)  
Services Provided: Testifying expert for plaintiff  
Disposition: Ongoing  
Date: 2012 – 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful cellular telephone calls  
Law Firm: Liner Grode Stein Yankelevitz Sunshine Regenstreif & Taylor LLP  
Case Name: Connelly v. Hilton Grand Vacations Company, LLC  
Services Provided: Testifying expert, expert reports, depositions for defendant  
Disposition: Class certification denied  
Date: 2012 – 2013

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Kirby Law Group  
Case Name: Agne v. Papa John's International, Inc. et al  
Services Provided: Consulting expert for plaintiff

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Disposition: Settled  
Date: 2012

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action and NY GBL 399-P class action related to unlawful calls  
Law Firm: Bellin and Associates LLC  
Case Name: Tipoo v. Enhanced Recovery Company, LLC  
Services Provided: Testifying expert, consulting expert, discovery motions for plaintiff  
Disposition: Undisclosed  
Date: 2012

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful calls  
Law Firm: Burke Law Offices, LLC  
Case Name: Bailey v. Household Finance Corporation et al  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Undisclosed  
Date: 2011 – 2012

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Burke Law Offices, LLC  
Case Name: Annoni v. FYISMS.com, LLC  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Undisclosed  
Date: 2011 – 2012

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: KamberEdelson, LLC  
Case Name: Schrock v. Wenner Media LLC  
Services Provided: Consulting expert for plaintiff  
Disposition: Undisclosed  
Date: 2011

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: Summit Law Group  
Case Name: Kramer v. Autobyte, Inc. and B2Mobile, LLC  
Services Provided: Consulting expert for defendant

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Disposition: Settled  
Date: 2011

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to wireless location based services (LBS)  
Law Firm: Mintz, Levin, Cohn, Ferris, Glovsky and Popeo PC  
Case Name: Emsat Geolocation Technology, LLC v. CellCo Limited Partnership (dba Verizon Wireless) et al  
Services Provided: Consulting expert, USPTO affidavits for patent reexamination for plaintiff  
Disposition: Undisclosed  
Date: 2010 – 2011

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful calls  
Law Firm: Keogh Law, Ltd.  
Case Name: Griffith v. Consumer Portfolio Services, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Undisclosed  
Date: 2010 – 2011

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful calls  
Law Firm: Keogh Law, Ltd.  
Case Name: Dobbin v. Wells Fargo Auto Finance, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Dismissed  
Date: 2010 – 2011

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology  
Law Firm: Nelson Bumgardner Casto PC  
Case Name: Celltrace LLC v. AT&T Inc. et al  
Services Provided: Consulting expert for plaintiff  
Disposition: Undisclosed  
Date: 2010

*Expert Engagement:*

Type of Matter: California Constitution, Article VI, § 10, class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: KamberEdelson, LLC  
Case Name: VanDyke v. Media Breakaway, LLC  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2009

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*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to unlawful calls  
Law Firm: Gordon & Rees LLP  
Case Name: Allen v. Rickenbacker Collection Services  
Services Provided: Consulting expert for defendant  
Disposition: Undisclosed  
Date: 2009

*Expert Engagement:*

Type of Matter: Intellectual property (trademarks) related to short message service (SMS) technology  
Law Firm: Fish & Richardson P.C.  
Case Name: Cricket Communications, Inc. v. HipCricket, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Undisclosed  
Date: 2008 – 2009

*Expert Engagement:*

Type of Matter: California Constitution, Article VI, § 10, class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: KamberEdelson, LLC  
Case Name: Albrecht v. mBlox, Inc. et al  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2008 – 2009

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 227 class action related to short message service (SMS) technology  
Law Firm: Blim & Edelson, LLC  
Case Name: Satterfield v. Simon & Schuster, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2007 – 2009

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: KamberEdelson, LLC  
Case Name: Walker v. Motricity, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

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Law Firm: KamberEdelson, LLC  
Case Name: Rynearson v. Motricity, Inc.  
Services Provided: Testifying expert, expert reports, depositions for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: California Constitution, Article VI, § 10, class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Reed v. Sprint Nextel Corporation  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Paluzzi v. CellCo Limited Partnership (dba Verizon Wireless) and mBlox, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Nava v. Predicto Mobile, LLC  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: McFerren v. AT&T Mobility, LLC  
Services Provided: Consulting expert for plaintiff, settlement agreement  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: California's Unfair Competition Law, Cal. Bus. & Prof. Code § 17200 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC

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Case Name: Guerrero v. MobileFunster, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Computer Fraud and Abuse Act, 18 U.S.C. Article § 1030, class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Gray v. Mobile Messenger Americas, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Goddard v. Google, Inc.  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Duffy v. Nevis Mobile, LLC  
Services Provided: Consulting expert for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Criswell v. MySpace, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Class Action Fairness Act of 2005, 28 U.S.C. §§ 1332, 1453 and 28 U.S.C. § 1367(a) class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC

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Case Name: Bradberry v. mBlox, Inc.  
Services Provided: Consulting expert, damage estimates for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: California Constitution, Article VI, § 10, class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers

Law Firm: KamberEdelson, LLC  
Case Name: Ayers v. Media Breakaway, LLC  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2008

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to wireless location based services (LBS)  
Law Firm: Hahn Loeser & Parks, LLC  
Case Name: Emsat Geolocation Technology, LLC v. CellCo Limited Partnership (dba Verizon Wireless) et al  
Services Provided: Consulting expert for plaintiff  
Disposition: Undisclosed  
Date: 2008

*Expert Engagement:*

Type of Matter: Class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: Blim & Edelson, LLC  
Case Name: Valdez v. Sprint Nextel Corporation  
Services Provided: Consulting expert, damages estimate for plaintiff  
Disposition: Settled  
Date: 2007

*Expert Engagement:*

Type of Matter: Telephone Consumer Protection Act (TCPA), 47 U.S.C. § 201 class action related to short message service (SMS) technology and unlawful charging of cellular telephone customers  
Law Firm: Blim & Edelson, LLC  
Case Name: Bradberry v. T-Mobile USA, Inc.  
Services Provided: Testifying expert, expert reports, numerosity for class certification for plaintiff  
Disposition: Settled  
Date: 2007

*Expert Engagement:*

Type of Matter: California Computer Crime Law, Cal. Pen. Code § 502 and California's Unfair Competition Law, Cal. Bus. & Prof. Code § 17200 class action related to short message service (SMS) technology  
Law Firm: KamberEdelson, LLC

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Case Name: Abrams v. Facebook, Inc.  
Services Provided: Testifying expert, expert reports for plaintiff  
Disposition: Settled  
Date: 2007

*Expert Engagement:*

Type of Matter: Intellectual property (patents) related to short message service (SMS) technology  
Law Firm: Paul Hastings LLP  
Case Name: TeleCommunication Systems, Inc. v. Mobile365, Inc.  
Services Provided: Testifying expert, expert reports, depositions, trial testimony for defendant  
Disposition: Settled  
Date: 2007

# **EXHIBIT 3**



## Wireless Research Services, LLC

### 2014 Rate Sheet

ITEM	FEE
Non-refundable Retainer at Time of Engagement	\$4,000
Expert Witness Consulting, Expert Reports	\$450 per hour
Depositions, In-court Testimony	\$500 per hour
Required Travel, Lodging, Board and Administrative Expenses	\$1,000 per airline travel day plus actual incurred expenses
Invoicing	Payment due upon receipt
Penalty for Late Payments	10% of total invoice added after each 30 days late until full payment is received

By signing below and returning an executed copy to Wireless Research Services, LLC along with payment of the non-refundable retainer, you agree to the payment terms contained on this rate sheet.

Agreed to by:\_\_\_\_\_

Law firm/Company:\_\_\_\_\_

Case Name:\_\_\_\_\_

Date:\_\_\_\_\_